

PCT09

RAW SEQUENCE LISTING

DATE: 02/21/2003

PATENT APPLICATION: US/09/701,675A

TIME: 10:06:12

Input Set : N:\Crf4\01222003\I701675.raw
Output Set: N:\CRF4\02212003\I701675A.raw

```
1 <110> APPLICANT: BANDMAN, Olga
 2
         LAL, Preeti
 3
         TANG, Y. Tom
         CORLEY, Neil C.
 4
         GUEGLER, Karl J.
         BAUGHN, Mariah R.
        PATTERSON, Chandra
 8 <120> TITLE OF INVENTION: Cell Cycle Regulation Proteins
 9 <130> FILE REFERENCE: PF-0531 USN
10 <140> CURRENT APPLICATION NUMBER: US/09/701,675A
11 <141> CURRENT FILING DATE: 2002-10-02
12 <150> PRIOR APPLICATION NUMBER: PCT/US99/12906
13 <151> PRIOR FILING DATE: 1999-06-08
14 <150> PRIOR APPLICATION NUMBER: 60/088,695
15 <151> PRIOR FILING DATE: 1998-06-08
16 <160> NUMBER OF SEQ ID NOS: 35
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17 <170> SOFTWARE: PERL Program
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21 <212> TYPE: PRT
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25 <223> OTHER INFORMATION: Incyte ID No: 037377
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30
31
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32
                          35
                                               40
                                                                   45
33
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34
                          50
                                              55
35
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36
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                                              70
37
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38
                          80
                                              85
39
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40
                          95
                                             100
41
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42
                         110
                                             115
43
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130

135

125



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45
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48
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                                              160
49
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61 <223> OTHER INFORMATION: Incyte ID No: 162871
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67
         Arg Gly Val Val Leu Phe Phe Ile Gly Val Phe Leu Ala Leu Val
68
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                                               40
69
         Leu Asn Leu Gln Ile Gln Arg Asn Val Thr Leu Phe Pro Pro
70
                           50
                                               55
         Asp Val Ile Ala Ser Ile Phe Ser Ser Ala Trp Trp Val Pro Pro
71
72
                           65
73
         Cys Cys Gly Thr Ala Ser Ala Val Ile Gly Leu Leu Tyr Pro Cys
74
         Ile Asp Arg His Leu Gly Glu Pro His Lys Phe Lys Arg Glu Trp
75
76
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77
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78
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                                              115
79
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80
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81
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82
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83
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84
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85
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86
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87
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88
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89
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95 <211> LENGTH: 236
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RAW SEQUENCE LISTING DATE: 02/21/2003 PATENT APPLICATION: US/09/701,675A TIME: 10:06:12

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105
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106
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107
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108
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110
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111
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113
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114
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                                               115
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119
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123
124
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125
                          170
                                               175
126
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127
                          185
                                               190
128
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129
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                                               205
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131
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133
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```

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,675A

146						20					25					30
147		Glu	Leu	Asp	Gln		Ala	Pro	Asp	Val		Glu	T.e.11	Tle	Ara	
148				<u>-</u> -	0111	35	*****	110	Пор		40	OI u	Lou	110	111 9	45
149		Pro	Met	Glu	Met		Tvr	Ile	Pro	Leu		Val	Ala	Leu	Phe	
150						50	_				55					60
151		Leu	Leu	Asn	Pro	Tyr	Thr	Ile	Leu	Ser	Cys	Val	Ala	Lvs	Ser	
152						65					70			4		75
153		Cys	Ala	Ile	Asn	Asn	Thr	Leu	Ile	Ala	Phe	Phe	Ile	Leu	Thr	Thr
154						80					85					90
155		Ile	Lys	Gly	Ser	Ala	Phe	Leu	Ser	Ala	Ile	Phe	Leu	Ala	Leu	Ala
156						95					100					105
157		Thr	Tyr	Gln	Ser	Leu	Tyr	Pro	Leu	Thr	Leu	Phe	Val	Pro	Gly	Leu
158						110					115					120
159		Leu	Tyr	Leu	Leu		Arg	Gln	Tyr	Ile	Pro	Val	Lys	Met	Lys	Ser
160		_		_,	_	125		_			130					135
161		Lys	Ala	Phe	Trp		Phe	Ser	Trp	Glu		Ala	Met	Met	Tyr	
162		0.1	~	-		140			_	_	145			_	_	150
163		СТА	Ser	ьeu	vaı		тте	тте	Cys	Leu		Phe	Phe	Leu	Leu	
164		C 0 x	П	7 00	Dha	155	D	7.7	77-7	m	160	Dl	~ 1 -	т	.	165
165 166		ser	Trp	Asp	Pne	170	Pro	Ата	vaı	Tyr	175	Pne	ше	ьeu	Ser	
167		Pro	Asp	T.e.11	Thr		Zen	Tla	C1 v	Lau		ሞሥነ	ጥ‹‹›	Dho	Dho	180
168		110	лэр	пец	1111	185	ASII	116	дту	ьеи	190	тър	туг	rne	rne	195
169		Glu	Met	Phe	Glu		Phe	Ser	Len	Phe		Val	Cvs	Val	Phe	
170					0_0	200	1110	001	пса		205	vul	O y S	•41	1110	210
171		Ile	Asn	Val	Phe		Tvr	Thr	Ile	Pro		Ala	Ile	Lvs	Leu	
172						215	2				220			1		225
173		Glu	His	Pro	Ile	Phe	Phe	Met	Phe	Ile	Gln	Ile	Ala	Val	Ile	Ala
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178						260					265					270
179		Ile	Phe	Val	Leu		Cys	Ile	Ile	Ile		Cys	Ser	Leu	Leu	
180		D	77 - 7	-	_	275	-	-		_	280	~ .	_		_	285
181		Pro	Val	Leu	Trp		Leu	Trp	TTe	Tyr		GLY	Ser	Ala	Asn	
182		7 0 0	Dha	Dha	m	290	т1.	m1	т	m1	295		TT - 1	01	~ 1	300
183 184		ASII	Phe	rne	ryr	305	тте	Thr	Leu	Inr		Asn	vaı	СТА	GIn	
185		Lou	Leu	Tlo	Sor		ጥተተድ	Dho	Ψ~	7.1.	310 Pho	Tou	7\~~	7\ ~~ ~	C1	315
186		пец	пеа	116	ser	320	ıyı	rne	ıyı	нта	325	ьeu	Arg	Arg	GIU	330
187		Tvr	Leu	Thr	His		T.e.ii	Tur	Len.	Thr		T.ve	Aen	G1v	Thr	
188		- 1 -	Lou		1110	335	ncu	- y -	пси	1111	340	цуз	пэр	OTY	1111	345
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DATE: 02/21/2003

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,675A TIME: 10:06:12

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		NAME/KEY: misc_feature														
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208		Ser	Gin	Asn	Gly		Val	Leu	Met	Glu		Thr	Ala	Tyr	Pro	
209		_	~ 7	~ 7		65	_				70				_	75
210		Leu	GLu	GLu	Thr		Ser	Thr	lle	Glu		Glu	GLu	Gin	Lys	
211		_	~ 1	-	~	80	m	- 1	0.1		85	~	_	_	_	90
212		Pro	GLU	Asp	Ser		Tyr	ıте	GLY	Thr		Ser	Asp	Asp	Ser	
213				m1	-	95	_	-	_	_	100	~ 1			_	105
214		тте	vaı	Thr	Leu		Pro	Pro	Lys	Leu		GLu	TTe	GTA	Asn	
215		C 3	** - 7	77. 7	~ 1	110	61	01	70.7	01	115	_	~ 1	_	D 1	120
216		GIU	vaı	vaı	Ile		GIU	GIU	Ата	GIN		Ser	GLu	Asp	Pne	
217		17-4	01	0	.	125	.	.	01		130	D)	_	0.1		135
218		мет	GIŸ	Ser	Ser		Ser	Ser	GIn	Tyr		Pne	Cys	GIn	Pro	
219		m\	17-1	Db -	0	140	C1	D	0	70	145	C1	Q	0	0	150
220		THE	vaı	Pne	Ser		GIN	Pro	ser	Asp	_	GIU	Ser	Ser	Ser	
221		C1	m1	0	7	155	D	0	D	7.1.	160	7	7	70	70	165
222 223		GIU	Thr	ser	Asn		Pro	ser	Pro	Ата		Arg	Arg	Arg	Arg	
223		7 ~~~	T	T	mb w	170	C = ==	7. 7. ~	C ~ ~	C1	175	C1	71	7\	т	180
225		ALG	гÃ2	гу	Thr	185	ser	Ата	ser	GIU		GIU	ASP	Arg	ьeu	
226		712	Clu	Cln	Glu		Clu	Dro	S0.2	Tuc	190	T 011	Cor	· T	71 ** ~*	195
227		ΑΙα	Giu	GIII	GIU	200	GIU	FIO	Ser	гу	205	ьеu	ser	гуз	Arg	210
228		Pho	Sar	Sor	Gly		Acn	Tuc	Cve	Val		T OU	Nla	Tou	Val	
229		1116	Ser	261	СТУ	215	nsii	пуз	Суз	vaı	220	пец	ALA	ьеи	vaı	225
230		Δla	Tla	Sar	Met		Dho	C1 v	Нie	Dho		G1 v	Thr	Tla	Cln	
231		пια	110	SCI	Hec	230	rne	СТУ	1113	1110	235	Сту	1111	116	GIII	240
232		Gln	T.vc	Ara	Gln		T.011	U = 1	Δrα	T.ve		ніс	Glu	Aen	Glu	
233		OIII	Lys	1119	OIII	245	БСС	Val	nrg	Lys	250	1113	Olu	лэр	Oru	255
234		Asn	Asn	Mot	Lys		Ψαν	Lan	Sar	Gln		Gln	Gln	Glu	Gln	
235		11011	тър	1100	цуз	260	1 y 1	пец	DCI	0111	265	OIII	OIII	Giu	GIII	270
236		Ser	Phe	Tle	Asp		T.ve	Ser	T.011	T.vs		Asn	T.e.11	Δla	Δra	
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238		Tro	Thr	T.011	Thr		Δla	Glu	Luc	Mρt		Pho	Glu	Thr	Gln	
239		111	1111	пси	1111	290	пта	Giu	БуЗ	1100	295	1110	Oiu	1111	0111	300
240		Thr	Asn	T.e.11	Ala		Glu	Δen	Gln	Tur		Δrα	Val	Ser	T.e.11	
241		****		200		305	Jiu	11011	V-11	- y -	310	1119	· u ·	J-01	<i>1</i> ∪ U	315
242		Lvs	G) 11	G] 11	Lys		Len	Ser	Ser	Len		Glu	Glu	Len	Asn	
243		-10				320	LCU	CCI	JU1	Lou	325		Ciu	u	11011	330
244		Len	Ara	Glu	Gln		Ara	Tle	Len	Glu		Lvs	Glv	Thr	Ser	
			9	4			9	110	10 U	Jau		_ y _	$\sim _{\perp}$		- CI	- · · ·

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/701,675A
TIME: 10:06:13

Input Set: N:\Crf4\01222003\I701675.raw
Output Set: N:\CRF4\02212003\I701675A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:13; N Pos. 230,233,236,243,246,251,285,307,309,310,317,319,329,344,345
Seq#:13; N Pos. 377,475,485,556,573,583,594
Seq#:15; N Pos. 34,59,60,134,168,311,314,344,347,354,364,391,393,401,407
Seq#:15; N Pos. 413,416,426,445,446,447,453,454,459,471
Seq#:16; N Pos. 119,501
Seq#:17; N Pos. 372,374,445
Seq#:18; N Pos. 462,485,510,514,550,562,602,617,622,625,629,636
Seq#:19; N Pos. 13,19,21
Seq#:20; N Pos. 406,435
Seq#:21; N Pos. 122,144,266,273
Seq#:22; N Pos. 22,25,32,106,123,126,135,208,216,219,234,236,263,271,282
Seq#:22; N Pos. 287,292,358,360,363,365,379,412,441,452,459,483,485,499,500
Seq#:23; N Pos. 8,17,24,27,33,36,43,246
Seq#:24; N Pos. 8
Seq#:25; N Pos. 419,435,453,462,463,471,476,513,516,563,585,586,597,611,618
Seq#:25; N Pos. 652,661,680,684,685,692,693,701,714,725,731
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Seq#:27; N Pos. 466,467,468,470,476,485,489,492,502,514,529,533,541,550,557
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Seq#:29; N Pos. 234
Seq#:30; N Pos. 162,163
Seq#:31; N Pos. 121
Seq#:32; N Pos. 88
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Seq#:33; N Pos. 552,555,557,560,561,569,574,584,585,594,596,611,614
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:11; Line(s) 500
Seq#:13; Line(s) 542
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Seq#:22; Line(s) 729
Seq#:25; Line(s) 790
Seq#:26; Line(s) 817
Seq#:27; Line(s) 842
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DATE: 02/21/2003 TIME: 10:06:13

Input Set : N:\Crf4\01222003\I701675.raw
Output Set: N:\CRF4\02212003\I701675A.raw

Seq#:33; Line(s) 956

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/701,675A TIME: 10:06:13

DATE: 02/21/2003

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L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:240
M:341 Repeated in SeqNo=11
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
M:341 Repeated in SeqNo=16
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:360
M:341 Repeated in SeqNo=17
L:658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:420
M:341 Repeated in SeqNo=18
L:675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:360
M:341 Repeated in SeqNo=20
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:120
M:341 Repeated in SeqNo=21
L:734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:360
M:341 Repeated in SeqNo=25
L:824 M:341 W: (46) "n" or "Xaa" used, for SEO ID#:26 after pos.:180
M:341 Repeated in SeqNo=26
L:849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:60
M:341 Repeated in SeqNo=27
L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:180
L:908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:120
L:925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:120
L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:60
L:963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:180
M:341 Repeated in SeqNo=33
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:60
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